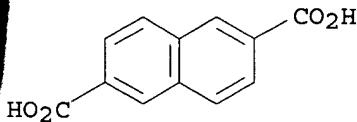


=> s 2,6-naphthalenedicarboxylic acid/cn
L1 1 2,6-NAPHTHALENEDICARBOXYLIC ACID/CN

=> d 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS
RN 1141-38-4 REGISTRY
CN 2,6-Naphthalenedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2,6-Naphthalic acid
FS 3D CONCORD
MF C12 H8 O4
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DIPPR*, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HODOC*, IFICDB, IFIPAT, IFIUDB, MEDLINE, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

650 REFERENCES IN FILE CA (1967 TO DATE)
61 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
652 REFERENCES IN FILE CAPLUS (1967 TO DATE)
25 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 6.22 6.37

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FILE COVERS 1907 - 19 Mar 2002 VOL 136 ISS 12
FILE LAST UPDATED: 18 Mar 2002 (20020318/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For

information on CAS roles, enter HELP MOLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

The P indicator for Preparations was not generated for all of the CAS Registry Numbers that were added to the CAS files between 12/27/01 and 1/23/02. As of 1/23/02, the situation has been resolved. Searches and/or SDIs in the H/Z/CA/CAplus files incorporating CAS Registry Numbers with the P indicator executed between 12/27/01 and 1/23/02 may be incomplete. See the NEWS message on this topic for more information.

=> s 1141-38-4

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L3 652 L2

=> s 1141-38-4/prep
652 1141-38-4
2842201 PREP/RL

L4 387 1141-38-4/PREP
(1141-38-4 (L) PREP/RL)

=> s 14 and 2,6-dimethylnaphthalene
7263347 2
3070431 6
3191 DIMETHYLNAPHTHALENE
1241 2,6-DIMETHYLNAPHTHALENE
(2 (W) 6 (W) DIMETHYLNAPHTHALENE)

L5 114 L4 AND 2,6-DIMETHYLNAPHTHALENE

=> s silicon or germanium or tin or lead or ruthenium
568473 SILICON
97135 GERMANIUM
194091 TIN
438263 LEAD
63922 RUTHENIUM

L6 1244301 SILICON OR GERMANIUM OR TIN OR LEAD OR RUTHENIUM

=> s oxy? and 16 and 15
732891 OXY?

L7 3 OXY? AND L6 AND L5

=> d 1-3 ibib abs hitstr

L7 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 1998:485031 CAPLUS
DOCUMENT NUMBER: 129:122969
TITLE: Process for production of aromatic acids
INVENTOR(S): Codignola, Franco
PATENT ASSIGNEE(S): Techint Compagnia Tecnica Internazionale S.P.A., Italy
SOURCE: PCT Int. Appl., 17 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9829378	A1	19980709	WO 1997-EP3154	19970614
W:	AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS,			

LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SE,
SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG,
KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
GN, ML, MR, NE, SN, TD, TG

AU 9731766 A1 19980731 AU 1997-31766 19970614
EP 1000007 A1 20000517 EP 1997-927191 19970614
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI

US 6160170 A 20001212 US 1999-331754 19990625

PRIORITY APPLN. INFO.: IT 1996-MI2753 A 19961227
WO 1997-EP3154 W 19970614

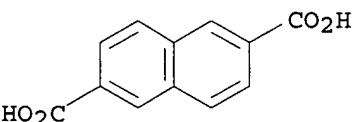
AB Arom. mono- and poly-carboxylic acids are produced by oxidn. of the corresponding precursors with mol. oxygen and/or air in the presence of a catalytic complex formed by a combination of (A) .gtoreq.1 metal belonging to Group VIIIB of the periodic table of elements, principally ruthenium, iridium, palladium, platinum; and/or .gtoreq.1 metal of Group VIIB, principally rhenium; and/or cerium; and (B) .gtoreq.1 metal belonging to Group IVB of the periodic table of elements, principally zirconium and/or hafnium.

IT 1141-38-4P, 2,6-Naphthalenedicarboxylic acid

RL: IMF (Industrial manufacture); PREP (Preparation)
(catalysts for prodn. of arom. acids by oxidn. of arom. compds.)

RN 1141-38-4 CAPLUS

CN 2,6-Naphthalenedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)



L7 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1994:33367 CAPLUS

DOCUMENT NUMBER: 120:33367

TITLE: Method for purifying a naphthalenedicarboxylic acid

INVENTOR(S): Sikkenga, David L.; Hoover, Stephen V.

PATENT ASSIGNEE(S): Amoco Corp., USA

SOURCE: U.S., 10 pp.

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5256817	A	19931026	US 1992-900618	19920618
WO 9400413	A1	19940106	WO 1993-US5786	19930616
	W: AU, BG, BR, CA, HU, JP, KR, NO, RO, RU			
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE			
AU 9346382	A1	19940124	AU 1993-46382	19930616
EP 601177	A1	19940615	EP 1993-916582	19930616
EP 601177	B1	19970917		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, SE			
JP 06509823	T2	19941102	JP 1993-502445	19930616
AT 158272	E	19971015	AT 1993-916582	19930616
ES 2110619	T3	19980216	ES 1993-916582	19930616
RU 2128641	C1	19990410	RU 1994-21689	19930616
PRIORITY APPLN. INFO.:		US 1992-900593	A	19920618
		US 1992-900618	A	19920618
		US 1992-900637	A	19920618
		WO 1993-US5786	A	19930616

AB A naphthalenedicarboxylic acid is purified by contacting the impure acid with H in the presence of a hydrogenation catalyst and a solvent

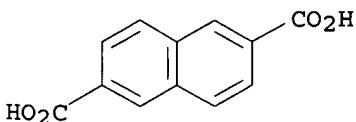
comprising a low mol. wt. carboxylic acid, at .gtorsim.500.deg. F and a pressure sufficient to maintain the solvent at least partially in the liq. phase and then recovering the purified naphthalenedicarboxylic acid.

IT 1141-38-4P, 2,6-Naphthalenedicarboxylic acid
RL: PUR (Purification or recovery); PREP (Preparation)

(purifn. of, by catalytic hydrogenation)

RN 1141-38-4 CAPLUS

CN 2,6-Naphthalenedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)



L7 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1987:556906 CAPLUS

DOCUMENT NUMBER: 107:156906

TITLE: Overcoming inhibitive effects in homogeneous oxidation of methylaromatics

AUTHOR(S): Schmitt, G.; Kurtz, K. R.

CORPORATE SOURCE: Ruhr-Univ., Bochum, D-4630, Fed. Rep. Ger.

SOURCE: Catal. Today (1987), 1(1-2), 69-79

CODEN: CATTEA

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The inhibiting effect of N- and S-contg. compds. during liq. phase oxygenation of alkylaroms. can be overcome by adding noble metal salts (RuCl₃, RhCl₃, PdCl₂, IrCl₃, PtCl₂) to conventional Co-Mn-Br catalysts. Only 10 mol% (based on Co-Mn-Br content) of the noble metal salt allows the practically uninhibited oxidn. of dimethylnaphthalenes to naphthalenedicarboxylic acids in the presence of 10 mol% (based on educt) of thionaphthene, quinoline, or indole. Even primary arom. amines (e.g., 2-aminonaphthalene) lose much of their inhibiting activity. However, noble metal salt addn. completely blocks the oxidn. reaction in the presence of O-contg. compds. like coumarone or 3,5-xylenol due to oxidative degrdn. to phenolic substances.

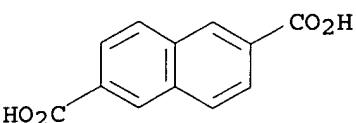
IT 1141-38-4P, 2,6-Naphthalenedicarboxylic acid

RL: IMF (Industrial manufacture); PREP (Preparation)

(prepn. of, from dimethylnaphthalene, transition metal chlorides as catalysts for)

RN 1141-38-4 CAPLUS

CN 2,6-Naphthalenedicarboxylic acid (8CI, 9CI) (CA INDEX NAME)



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Terms	Documents
L6 and naphthalenecarboxylic acid	0

Database:

Search:

Search History**DATE: Tuesday, March 19, 2002** [Printable Copy](#) [Create Case](#)**Set Name** **Query**
side by side**Hit Count** **Set Name**
result set*DB=USPT; PLUR=YES; OP=ADJ*

<u>L8</u>	L6 and naphthalenecarboxylic acid	0	<u>L8</u>
<u>L7</u>	L6 and 2,6-naphthalenecarboxylic acid	0	<u>L7</u>
<u>L6</u>	L4 and purification reactor	4	<u>L6</u>
<u>L5</u>	L4 and purification	15	<u>L5</u>
<u>L4</u>	L3 and reactor	15	<u>L4</u>
<u>L3</u>	5256817	20	<u>L3</u>
<u>L2</u>	(3584039 3888921 4794195 4933491)![pn]	4	<u>L2</u>
<u>L1</u>	5256817.pn.	1	<u>L1</u>

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Search Results - Record(s) 1 through 4 of 4 returned.

 1. Document ID: US 5502247 A

L6: Entry 1 of 4

File: USPT

Mar 26, 1996

US-PAT-NO: 5502247

DOCUMENT-IDENTIFIER: US 5502247 A

TITLE: Process for recovery of aromatic acid or ester and polyol from waste polyester resins

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw. Desc](#) [Image](#) 2. Document ID: US 5473102 A

L6: Entry 2 of 4

File: USPT

Dec 5, 1995

US-PAT-NO: 5473102

DOCUMENT-IDENTIFIER: US 5473102 A

TITLE: Process for recovery of aromatic acid and dihydric alcohol from waste polyester resins

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw. Desc](#) [Image](#) 3. Document ID: US 5453538 A

L6: Entry 3 of 4

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw. Desc](#) [Image](#) 4. Document ID: US 5414113 A

L6: Entry 4 of 4

File: USPT

May 9, 1995

US-PAT-NO: 5414113

DOCUMENT-IDENTIFIER: US 5414113 A

TITLE: Process for recovery of aromatic acid from waste polyester resin

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KMC](#) [Draw. Desc](#) [Image](#)

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Terms	Documents
L4 and purification reactor	4

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